

STEPHEN JOEL MOTEW, MD, FACS

Work:

Salem Surgical Associates, PA
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Domain Names owned: www.vasc-surgery.com, www.vascsurgeon.com, www.aorta-surgery.com

Military: LCDR, United States Naval Reserve, Inactive

Licensure: Illinois, North Carolina

Certification: National Board of Medical Examiners 1993
American Board of Surgery, General Surgery 2000

EDUCATION:

1988-1992 **University of Illinois at Chicago, College of Medicine, Chicago, IL**
MD-Cum laude awarded June 1992.

1984-1988 **Emory University, Atlanta, GA**
BA degree in Anthropology awarded May 1988.

POST-GRADUATE:

1999-2001 **Wake Forest University, Baptist Medical Center, Department of Surgery, Winston-Salem, NC**
Vascular Surgery Fellowship

1992-1999 **University of Illinois at Chicago, Department of Surgery, Chicago, IL**
General surgery internship and residency.

1994-1996 **University of Illinois at Chicago, College of Medicine, Department of Physiology and Biophysics, Chicago IL**
NIH Research Training Fellow (T32 HL 07692), *Director*: James L. Ferguson, PhD

HONORS and AWARDS:

- Winner, Best Resident Teacher Award, University of Illinois, Dept. of Surgery, 1999
- Administrative Chief Resident, University of Illinois, Dept. of Surgery, 1998-1999
- Administrative Senior Resident, University of Illinois, Dept. of Surgery, 1997-1998
- Winner, Majarakis Research Travel Scholarship, University of Illinois, Dept. of Surgery, 1997
- First place, University of Illinois Department of Surgery Research Forum, "Sepsis severely depresses serum testosterone", 1996
- Travel Award, 18th Annual Conference on Shock, "Adenosine modulates splanchnic blood flow in sepsis", 1995
- Most Outstanding First Year Resident, University of Illinois, Dept. of Surgery, 1992-1993
- Alpha Omega Alpha Honor Medical Society, University of Illinois College of Medicine, 1991

ACADEMIC APPOINTMENTS and TEACHING EXPERIENCE

- 1999 **Clinical Instructor in Surgery**
Department of Surgery, University of Illinois at Chicago
- 1995-1996 **Invited lecturer, Cardiovascular physiology**
Department of Physiology & Biophysics, University of Illinois at Chicago
- 1995 **Co-Director, Animal physiology lab**
Department of Physiology & Biophysics, University of Illinois at Chicago

RESEARCH INTERESTS AND ACTIVITIES

Vascular cell wall biology, restenosis and remodeling. Hemodynamic and vascular control and regulatory mechanisms. Vascular imaging, angiography and duplex image analysis and modeling.

- 1999-2000 **Wake Forest University, Baptist Medical Center, Department Surgery.**
Vascular Research Fellow. Director: Randolph Geary, MD, Kimberley Hansen, MD
Studying mechanisms of arterial restenosis and remodeling. Clinical applications of duplex sonography.
- 1994-1996 **University of Illinois at Chicago, College of Medicine, Chicago IL**
Department of Physiology and Biophysics. *NIH training fellow. Director: James L. Ferguson, PhD*
Blood flow regulation during sepsis. Cytokine and steroidogenic alterations during shock and sepsis. Invited reviewer for American Journal of Physiology.
- 1987 **Northwestern University School of Medicine, Department of Reproductive Endocrinology.** *Laboratory technician.*

FUNDING:

2000-2001 **Wake Forest University Cross Campus Research Grant**
Mathematical analysis of renal duplex waveforms using Laplace transform.

SKILLS

Proficient in Macintosh, PC/Windows/DOS/NT computer operating systems, HTML, Paradox, SPSS and graphics applications.

INVITED PRESENTATIONS

- Jan. 2000 Southern Association for Vascular Surgery, 24th Annual meeting, Tucson
"Renal duplex sonography: Main renal artery vs. hilar analysis"
- May 1996 C. Thomas Bombeck Lectureship, University of Illinois, Chicago
"Multiple roles of adenosine during chronic sepsis"
- Feb. 1996 Society of University Surgeons Resident Forum, Washington DC
"Plasma nitrate/nitrite levels in a rat model of surgical sepsis"
- July 1995 Warren H. Cole Society Annual Meeting, University of Illinois, Chicago
"Adenosine in the splanchnic circulation during sepsis"
- March 1995 Annual meeting of the Buffalo Surgical Society, University of Illinois,
Chicago, "Nitric oxide in chronic sepsis"

MANUSCRIPTS

1. **Motew SJ**, Cherr GS, Craven TE, Travis JA, Wong JM, Reavis SW, Hansen KJ. Renal duplex sonography: Main renal artery vs. hilar analysis. *J Vasc Surg* 2000, 32(3):462-9
2. Hansen KJ, Cherr GS, Craven TE, **Motew SJ**, Travis JA, Wong JM, Levy PJ, Freedman BI, Ligush JL, Dean RH. Management of ischemic nephropathy: Dialysis-free survival after surgical repair. *J Vasc Surg* 2000, 32(3):472-81
3. **Motew SJ**, Sam AD; Mourelatos MG; Sharma AC; Alden KJ; Ferguson JL; Law WR. Adenosine receptor antagonism affects regional resting vascular resistance during rat peritoneal sepsis. *J Surg Res* 1998 Dec;80(2):326-32
4. Alden KJ; **Motew SJ**; Sharma AC; Ferguson JL. Effect of aminoguanidine on plasma nitric oxide by-products and blood flow during chronic peritoneal sepsis. *Shock* 1998 Apr;9(4):289-95

5. **Motew SJ**; Mourelatos MG; Miller RN; Ferguson JL; Law WR. Evidence that adenosine contributes to maintenance of hepatosplanchnic blood flow during peritoneal sepsis in rats. *Shock* 1997 Jun;7(6):439-46
6. Sharma AC; **Motew SJ**; Farias S; Alden KJ; Bosmann HB; Law WR; Ferguson JL. Sepsis alters myocardial and plasma concentrations of endothelin and nitric oxide in rats. *J Mol Cell Cardiol* 1997 May;29(5):1469-77
7. Sharma AC; Bosmann HB; **Motew SJ**; Hales KH; Hales DB; Ferguson JL. Steroid hormone alterations following induction of chronic intraperitoneal sepsis in male rats. *Shock* 1996 Aug;6(2):150-4

ABSTRACTS

1. **Motew SJ**, Cherr GS, Craven TE, Travis JA, Wong JM, Reavis SW, Hansen KJ. Renal duplex sonography: Main renal artery vs. hilar analysis. 24th Annual Meeting of the Southern Association for Vascular Surgery, 2000, Tucson, AZ
2. Hansen KJ, Cherr GS, Craven TE, **Motew SJ**, Travis JA, Wong JM, Levy PJ, Freedman BI, Ligush JL, Dean RH. Management of ischemic nephropathy: Dialysis-free survival after surgical repair. 24th Annual Meeting of the Southern Association for Vascular Surgery, 2000, Tucson, AZ
3. Sam AD II, **Motew SJ**, Sharma AC, Alden KJ, Ferguson JL, Law WR: Adenosine Receptor Antagonism Results in Heterogenous Vasoconstriction During Rat Peritoneal Sepsis. *Experimental Biology (FASEB) Journal*; 12(4) pt 1,#482, pA83, 1998
4. Alden KJ, **Motew SJ**, Sharma AC, Ferguson JL. Sustained increase in plasma nitric oxide during chronic peritoneal sepsis in rats. *Shock* 1997;7S:33
5. Sharma AC, **Motew SJ**, Farias S, Alden KJ, Law WR, Ferguson JL. Alterations in myocardial performance and concentrations of endothelin (ET) and nitric oxide (NO) during sepsis. *Experimental Biology (FASEB) Journal*:11;A28
6. **Motew SJ**, Alden KJ, Sharma AC, Law WR, Ferguson JL. The effects of aminoguanidine on blood flow in sepsis. *Shock* 1996;5S:52
7. Sharma AC, **Motew SJ**, Hales KH, Xu W, Alden KJ, Hales DB, Bosmann HB, Ferguson JL. Progression of sepsis severely depresses serum concentrations of testosterone in rats. *Shock* 1996;5S:38
8. Mourelatos MG, **Motew SJ**, JL Ferguson, Law WR. Adenosine blockade improves myocardial performance in sepsis. *Shock* 1996;5S:113

9. Sharma AC, **Motew SJ**, Alden KJ, Bosmann HB, Ferguson JL. Sepsis alters myocardial and plasma concentrations of endothelin and nitric oxide. Annual Meeting of American Heart Association of Metropolitan Chicago, Northwestern University, Chicago, 1996
10. **Motew SJ**, Sharma AC, Alden KJ, Evans CC, Ferguson JL. Sepsis leads to an imbalance between circulating ET-1 and NO. *J Mol Cell Cardiol* 1996;28:A146
11. **Motew SJ**, Alden KJ, Moore SL, Law WR, Ferguson JL. A role for adenosine in skeletal muscle during sepsis. Society of University Surgeons, Surgical Resident's Meeting, Feb. 1996
12. Alden KJ, **Motew SJ**, Sharma AC, Moore S, Ferguson JL. Plasma nitrate and nitrite levels increase in chronic sepsis. Student Medical Research Forum, College of Medicine, The University of Illinois at Chicago, Jan. 1996
13. **Motew SJ**, Miller RN, Mourelatos MG, Ferguson JL, Law WR. Adenosine modulates splanchnic blood flow in sepsis. *Shock* 1995;3S:182